

## Claims

What is claimed is:

- 1        1. A method, comprising:  
2            repeating first data to provide first repeated data and deleting second  
3            repeated data to provide second data according to a programmed standard  
4            included in a first apparatus and selected from a first plurality of  
5            reprogrammable standards.
- 1        2. The method of claim 1, further comprising:  
2            reprogramming the first apparatus to operate in accordance with a second  
3            plurality of reprogrammable standards including the programmed standard; and  
4            repeating the first data and deleting the second repeated data according to the  
5            programmed standard included in the second plurality of reprogrammable  
6            standards included in the first apparatus.
- 1        3. The method of claim 1, further comprising:  
2            programming reconfigurable logic included in the first apparatus to  
3            include at least the programmed standard selected from the first plurality of  
4            reprogrammable standards.
- 1        4. The method of claim 1, wherein the first apparatus includes reconfigurable  
2            logic having at least one of a state machine-based rate matcher and a table-  
3            based rate matcher.
- 1        5. The method of claim 4, wherein the reconfigurable logic includes at least  
2            one of a state machine-based rate matcher and at least one of a table-based  
3            rate matcher.

1       6. The method of claim 1, further comprising:  
2           repeating the second data to provide the second repeated data and deleting  
3       the first repeated data to provide the first data according to the programmed  
4       standard selected from a second plurality of reprogrammable standards included  
5       in a second apparatus.

1       7. The method of claim 6, further comprising:  
2           reprogramming the second apparatus to operate in accordance with a third  
3       plurality of reprogrammable standards including the programmed standard; and  
4       repeating the second data to provide the second repeated data and deleting the  
5       first repeated data to provide the first data according to the programmed  
6       standard selected from the third plurality of reprogrammable standards included  
7       in the second apparatus.

1       8. The method of claim 6, further comprising:  
2       transmitting, from the first apparatus, the first repeated data to the second  
3       apparatus.

1       9. An article comprising a machine-accessible medium having associated data,  
2       wherein the data, when accessed, results in a machine performing:  
3       puncturing first data to transmit first punctured data and depuncturing second  
4       punctured data to provide second data according to a programmed standard  
5       included in a first apparatus and selected from a first plurality of  
6       reprogrammable standards.

1       10. The article of claim 9, wherein the data, when accessed, results in the  
2       machine performing:  
3       puncturing the second data to transmit the second punctured data and  
4       depuncturing the first punctured data to provide the first data according to the

5       programmed standard included in a second apparatus and selected from a second  
6       plurality of reprogrammable standards.

1       11. The article of claim 10, wherein the data, when accessed, results in the  
2       machine performing:  
3       receiving, at the second apparatus, the first punctured data transmitted by the  
4       first apparatus.

1       12. An apparatus, comprising:  
2       a rate matcher pattern generator having an operational mode selectable between  
3       a repeat transmission mode and a depuncture reception mode.

1       13. The apparatus of claim 12, further comprising:  
2       a multiplexer coupled to the rate matcher pattern generator to select between  
3       input data and repeated data.

1       14. The apparatus of claim 13, further comprising:  
2       a wireless transmitter coupled to the multiplexer to transmit the repeated  
3       data.

1       15. The apparatus of claim 12, further comprising:  
2       a multiplexer coupled to the rate matcher pattern generator to select between  
3       input data and depunctured data.

1       16. The apparatus of claim 15, further comprising:  
2       a wireless receiver coupled to the multiplexer to provide the input data.

1       17. An apparatus, comprising:  
2       a rate matcher pattern generator configurable to operate in a mode selectable  
3       between a delete reception mode and a puncture transmission mode.

- 1 18. The apparatus of claim 17, wherein the rate matcher pattern generator can be  
2 configured to include a state machine to implement a rule-based standard.
- 1 19. The apparatus of claim 17, wherein the rate matcher pattern generator can be  
2 configured to include a look up table to implement a table-based standard.
- 1 20. The apparatus of claim 17, further comprising:  
2 a wireless transmitter coupled to the rate matcher pattern generator to  
3 transmit punctured data provided in the puncture transmission mode.
- 1 21. The apparatus of claim 20, further comprising:  
2 a first-in first-out memory coupled to the rate matcher pattern generator and  
3 to the wireless transmitter, the first-in first-out memory to store the punctured  
4 data.
- 1 22. The apparatus of claim 17, further comprising:  
2 a wireless receiver coupled to the rate matcher pattern generator to provide  
3 input data in the delete reception mode.
- 1 23. A system, comprising:  
2 reconfigurable logic;  
3 a transmitter coupled to the reconfigurable logic to repeat first data to  
4 provide first repeated data;  
5 a receiver coupled to the reconfigurable logic to delete second repeated data  
6 to provide second data according to a programmed standard included in the  
7 reconfigurable logic and selected from a plurality of reprogrammable standards;  
8 and  
9 a dipole antenna to couple to the receiver.

1       24. The system of claim 23, wherein the dipole antenna is to couple to the  
2       transmitter.

1       25. The system of claim 23, wherein the reconfigurable logic comprises:  
2       a rate matcher pattern generator configurable to operate in a mode selectable  
3       between a repeat transmission mode and a depuncture reception mode.

1       26. A system, comprising:  
2       reconfigurable logic;  
3       a transmitter coupled to the reconfigurable logic to puncture first data to  
4       transmit first punctured data; and  
5       a receiver coupled to the reconfigurable logic to depuncture second  
6       punctured data to provide second data according to a programmed standard  
7       selected from a plurality of reprogrammable standards; and  
8       a dipole antenna to couple to the receiver.

1       27. The system of claim 26, further comprising:  
2       a wireless energy emission device coupled to the transmitter.

1       28. The system of claim 26, wherein the reconfigurable logic comprises:  
2       a rate matcher pattern generator configurable to operate in a mode selectable  
3       between a delete reception mode and a puncture transmission mode.